providing a system that includes a first operational mode and a second operational mode;

coupling a computer including a fail safe logic program to the system; and

configuring the fail safe logic program to automatically switch the system from the first operational mode to the second operational mode without going to a standby mode.

21.   A method in accordance with Claim 20 wherein configuring the fail safe logic program to switch the system from the first operational mode to the second operational mode without going to a standby mode comprises configuring the fail safe logic program to automatically switch the system from the first operational mode to the second operational mode without going to a standby mode.

22.   A method in accordance with Claim 20 wherein providing system comprises providing a nuclear power plant system that includes a first operational mode and a second operational mode.

23.   A method in accordance with Claim 20 wherein providing a system that includes a first operational mode and a second operational mode comprises providing a system that includes at least one of a residual heat removal mode, a reactor core isolation cooling mode, and a high pressure core flooder mode.

24.   A method in accordance with Claim 20 further comprising manually changing the system while operating in the first mode.

25.   A method in accordance with Claim 20 further comprising verifying a plurality of second mode permissives prior to switching the system to the second operational mode.

REMARKS

Claims 1-25 are now pending in this application. Claims 7-19 are withdrawn from consideration. Claims 20-25 are newly added. Applicant submits that this Amendment adds no new matter.

The rejection of Claims 1-6 under 35 U.S.C. § 102(b) as being anticipated by Hench et al. (U.S. Pat. No. 4,421,716) is respectfully traversed.